

IN THE CLAIMS

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1. (Currently amended) An electronic device being provided with a microelectromechanical system (MEMS) element that comprises:

    a first electrode that is present on a surface of a substrate;

    a movable element that overlies at least partially the first electrode and comprises a piezoelectric actuator, which movable element is movable towards and from the substrate by application of an actuation voltage between a first and a second position, in which first position it is separated from the substrate by a tunable gap,

    wherein the piezoelectric actuator comprises a piezoelectric layer that is on opposite surfaces provided with a second and a third electrode respectively, said second electrode facing the substrate and said third electrode forming an input electrode of the MEMS element, so that a current path ~~between~~ through the MEMS element comprises the piezoelectric layer and the tunable gap.

2. (Currently amended) An electronic device as claimed in claim 1, wherein the first and the second electrode are arranged such that the first electrode is in contact with the piezoelectric dielectric layer in the second, closed position of the movable element.

3. (Canceled)

4. (Previously presented) An electronic device as claimed in claim 1, wherein the first electrode contacts the second electrode in the second, closed position of the movable element.

5. (Previously presented) An electronic device as claimed in claim 1, wherein the movable element is free of any additional structural layer, and at least one of the piezoelectric layer and the layer of the third electrode constitute a carrier layer of the movable element.

6. (Previously presented) An electronic device as claimed in claim 1, wherein the third electrode extends laterally as an interconnect to another element in the device.

7. (Previously presented) An electronic device as claimed in claim 6, wherein the second electrode is connected to ground, such that the third electrode functions as a transmission line.

8. (Previously presented) An electronic device as claimed in claim 1, wherein the second electrode has a thickness that is at most half of the thickness of the third electrode.

9. (Previously presented) An electronic device as claimed in claim 8, wherein the thickness of the second electrode is at most a fifth of the thickness of the third electrode.

10. (Previously presented) An electronic device as claimed in claim 1, wherein at least one of the layers of the second and the third electrode is structured, such that portions of the piezoelectric layer can be provided with different driving voltages.